

CONTRINEX DW Series 12mm Stainless Steel **Triple Sensing Proximity Sensors**



M12 Stainless Steel - DC

- 10mm sensing
- Complete overload protection
- IP68, IP69k rated
- Two M12 lock nuts included
- · Stainless steel construction
- One-piece for harsh duty applications
- · LED status indicator
- · Lifetime warranty



DW Series 12mm Triple Distance Inductive Proximity Selection Chart										
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Connection Wiring Di		
DW-AD-711-M12	\$;011b[:		12 10mm [0.393 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
DW-AD-713-M12 *	\$011b_:				N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
DW-AS-711-M12	\$011b#:				N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 2	
DW-AS-713-M12 *	\$;011b!:				N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 2	
DW-AD-712-M12	\$011b?:	M12			Non-ilusii	N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-714-M12	\$;011b,:				N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
DW-AS-712-M12	\$011c0:				N.C.	NPN	M12 quick-disconnect	Diagram 3	Figure 2	
DW-AS-714-M12	\$011c1:				N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 2	

^{*}IO-Link model

Wiring Diagrams

Diagram 1

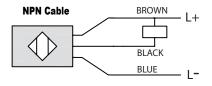
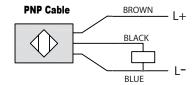


Diagram 2



Connectors

M12 connector



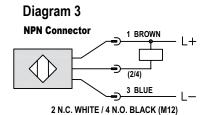


Diagram 4 **PNP Connector** 1 BROWN L+ 2 N.C. WHITE / 4 N.O. BLACK (M12)

DW Series 12mm Stainless Steel Triple Sensing Proximity Sensors

DM Ossica 40mm Triple Distance Industine Descinity Openifications						
DW Series 12	DW Series 12mm Triple Distance Inductive Proximity Specifications					
Specifications	DW-Ax-71x-M12					
Mounting Type	Non-flush					
Nominal Sensing Distance	10mm					
Operating Distance	-					
Material Correction Factors	See the Material influence table					
Output Type	NPN or PNP, N.O. or N.C.					
Operating Voltage	10 to 30 VDC					
No-load Supply Current	≤ 10mA					
Operating (Load) Current	≤200mA					
Off-state (Leakage) Current	≤ 0.1 mA					
Voltage Drop	≤2V					
Switching Frequency	≤ 400Hz					
Differential Travel (% of Nominal Distance)	≤ 10%					
Repeat Accuracy	0.30 mm					
Ripple	≤ 20%					
Time Delay Before Availability (tv)	≤ 70ms					
Reverse Polarity Protection	Yes					
Short-Circuit Protection	Yes					
Operating Temperature	-25 to 85°C [-13 to 185°F]					
Protection Degree (DIN 40050)	IP68, IP69K					
Indication/Switch Status	Yellow LED					
Housing Material	Stainless steel					
Sensing Face Material	Stainless steel					
Shock/Vibration	IEC 60947-5-2/7.4					
Tightening Torque	-					
Weight	80g [2.82 oz], 23g [0.81 oz]					
Connection	2m [6.5 ft] cable, M12 connection					
IO-Link	PNP/N.O. only					
Agency Approvals	CE, cULus E239373					

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Dimensions

mm [inches]

Figure 1

M12X1.0

40.0

[1.97]

Ø5.0

[0.20]

See our website www.AutomationDirect.com for complete engineering drawings.

LED

M12X1.0

M12X1.0

Figure 2

Accessories for 12mm Sensors

Axial Mounting Bracket

Mounting bracket, axial, available in zinc-plated steel or 316L stainless steel. For use with 12mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for right-angle adapter sensors. Hexagonal nuts not included.

Accessories for 12mm Sensors							
Part Number Price Description Drawing Link				Weight lb [g]			
ST12A	\$97_:	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 12mm sensors.	<u>PDF</u>	0.03 [13.6]			
<u>ST12A7W</u>	\$97#:	Micro Detectors mounting bracket, axial, 316L stainless steel. For use with 12mm sensors.	<u>PDF</u>	0.03 [13.6]			



ST12A

Right-angle Mounting Bracket

Mounting bracket, right-angle, zinc-plated steel or 316L stainless steel. For use with 12mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal screws not included.

Accessories for 12mm Sensors							
Part Number Price Description			Drawing Link	Weight lb [g]			
ST12C	\$;97!:	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 12mm sensors.		0.03 [13.6]			
<u>ST12C7W</u>	\$97?:	Micro Detectors mounting bracket, right-angle, 316L stainless steel. For use with 12mm sensors.	<u>PDF</u>	0.03 [13.6]			



ST12C

Accessories for 12mm Sensors

Right-angle Mounting Brackets

Mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 12mm sensors. Available with or without fixed insertion stop.

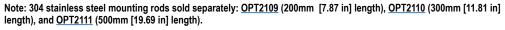
Accessories for 12mm Sensors							
Part Number	Drawing Link	Weight lb [g]					
<u>OPT2102</u>	\$-1nlq:	Wenglor mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 12mm sensors.	<u>PDF</u>	0.05 [22.7]			
<u>OPT2103</u>	\$-1nls:	Wenglor mounting bracket, right-angle, plastic. For use with 12mm sensors.	<u>PDF</u>	0.05 [22.7]			



Right-angle Swivel Mounting Systems

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 12mm rod mount. For use with 12mm sensors. Available in all stainless steel or with an aluminum head and stainless steel mounting plate.

	Accessories for 12mm Sensors								
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight Ib [g]			
<u>OPT2114</u>	\$;-1nl[:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 12mm sensors.	Aluminum	Stainless steel	<u>PDF</u>	0.14 [63.5]			
<u>OPT2115</u>	\$-1nl_:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 12mm sensors.	304 Stainless steel	304 Stainless steel	PDF	0.27 [122.5]			





OPT2114, OPT2115

Mounting Rods and Brackets

Mounting Rods

304 Stainless steel rods for mounting swivel brackets <u>OPT2112</u> - <u>OPT2127</u> Available in three lengths: 200mm, 300mm, and 500mm. 12mm diameter.

M	Mounting Rods for OPT2112-2127 Swivel Mounting Brackets								
Part Number	rt Number Price Description								
<u>OPT2109</u>	\$1nn9:	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	<u>PDF</u>	0.41 [185.97]					
<u>OPT2110</u>	\$1nna:	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]					
<u>OPT2111</u>	\$1nnb:	Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	<u>PDF</u>	0.98 [444.52]					



Right-angle Mounting Bracket

Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.

Right-angle Mounting Brackets for 12mm Sensors							
Part Number Price Description		Drawing Link	Weight Ib [g]				
<u>OPT2108</u>	\$-1nly:	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.		0.07 [31.8]			



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